

**HYDROPHOBIC COATING FOR OXIDE SURFACES**

**ABSTRACT**

The disclosure relates to hydrophobic coatings for oxidized surfaces and methods of producing the same.

5 Such coatings may be produced by applying a compound of the general formula  $AX_n$  or  $A(R^1)_mX_n$  to an oxidized surface followed by a nucleophilic compound of the general formula  $DR^2$ . The processes may result in a hydrophobic unreactive organic coating that sterically inhibits  
10 access to the underlying oxidized surface or reactive groups. In selected embodiments, the hydrophobic coating may form a monolayer.